

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: January 3, 2005, 17:54:27 ; Search time 22.5636 Seconds  
(without alignments)  
49.966 Million cell updates/sec

Title: US-09-884-211b-4\_COPY\_147\_163

Perfect score: 92  
Sequence: 1 RYFTIFYALQYHNIMTV 17

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 6631800 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PTCUS COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	92	100.0	293	4 US-09-384-302A-8	Sequence 8, Appli
2	92	100.0	332	1 US-08-671-525B-8	Sequence 6, Appli
3	92	100.0	332	1 US-08-672-109B-8	Sequence 8, Appli
4	92	100.0	332	2 US-08-842-045-8	Sequence 8, Appli
5	92	100.0	332	2 US-08-842-238-8	Sequence 8, Appli
6	92	100.0	332	2 US-08-662-560-2	Sequence 2, Appli
7	92	100.0	332	2 US-08-780-749A-2	Sequence 2, Appli
8	92	100.0	332	2 US-08-780-749A-6	Sequence 6, Appli
9	92	100.0	332	3 US-08-706-281A-16	Sequence 16, Appli
10	92	100.0	332	3 US-08-629-335B-8	Sequence 8, Appli
11	92	100.0	332	3 US-09-097-231-16	Sequence 16, Appli
12	92	100.0	332	3 US-08-870-511-2	Sequence 2, Appli
13	92	100.0	332	3 US-08-870-511-6	Sequence 6, Appli
14	92	100.0	332	3 US-08-870-511-8	Sequence 8, Appli
15	92	100.0	332	3 US-08-870-511-10	Sequence 10, Appli
16	92	100.0	332	3 US-08-870-511-12	Sequence 12, Appli
17	92	100.0	332	4 US-09-384-302A-9	Sequence 9, Appli
18	92	100.0	332	4 US-09-353-099-16	Sequence 16, Appli
19	92	100.0	332	4 US-09-831-206-2	Sequence 2, Appli
20	83	90.2	332	4 US-09-384-302A-6	Sequence 6, Appli
21	76	82.6	323	2 US-08-044-812A-4	Sequence 4, Appli
22	76	82.6	323	2 US-08-475-637-4	Sequence 4, Appli
23	76	82.6	323	3 US-08-706-281A-12	Sequence 12, Appli
24	76	82.6	323	3 US-09-191-359-4	Sequence 4, Appli
25	76	82.6	323	3 US-09-097-231-12	Sequence 12, Appli
26	76	82.6	323	4 US-09-353-099-12	Sequence 12, Appli
27	76	82.6	323	4 US-09-709-066-2	Sequence 2, Appli

28	76	82.6	360	1 US-08-671-525B-6	Sequence 6, Appli
29	76	82.6	360	1 US-08-672-109B-6	Sequence 6, Appli
30	76	82.6	360	2 US-08-842-045-6	Sequence 6, Appli
31	76	82.6	360	2 US-08-842-238-6	Sequence 6, Appli
32	76	82.6	360	3 US-08-780-749A-1	Sequence 1, Appli
33	76	82.6	360	3 US-08-629-335B-6	Sequence 6, Appli
34	76	82.6	360	3 US-08-870-511-1	Sequence 1, Appli
35	76	82.6	360	4 US-09-709-066-4	Sequence 4, Appli
36	73	79.3	325	1 US-08-671-525B-10	Sequence 10, Appli
37	73	79.3	325	1 US-08-672-109B-10	Sequence 10, Appli
38	73	79.3	325	1 US-08-842-045-10	Sequence 10, Appli
39	73	79.3	325	2 US-08-842-238-10	Sequence 10, Appli
40	73	79.3	325	3 US-08-706-281A-18	Sequence 18, Appli
41	73	79.3	325	3 US-08-629-335B-10	Sequence 10, Appli
42	73	79.3	325	3 US-09-097-231-18	Sequence 18, Appli
43	73	79.3	325	4 US-09-353-099-18	Sequence 18, Appli
44	72	78.3	325	4 US-08-387-805-16	Sequence 16, Appli
45	71	77.2	297	1 US-07-866-560-6	Sequence 6, Appli

## ALIGNMENTS

```
RESULT 1
US-09-384-302A-8
Sequence 8, Application US/09384302A
Patent No. 6451543
GENERAL INFORMATION:
APPLICANT: Kochendoerfer, Gerd G
APPLICANT: Hunter, Christie L
APPLICANT: Kent, Stephen B.H.
APPLICANT: Botti, Paolo
APPLICANT: Gryphon Sciences
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
FILE REFERENCE: gfn-026/02MO
CURRENT APPLICATION NUMBER: US/09/384,302A
CURRENT FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: 09/144,964
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 09/263,971
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 293
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-384-302A-8
Query Match 100.0%; Score 92; DB 4; Length 293;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 108 RYFTIFYALQYHNIMTV 17
RYFTIFYALQYHNIMTV 124
RESULT 2
US-08-671-525B-8
Sequence 8, Application US/08671525B
Patent No. 5703220
GENERAL INFORMATION:
APPLICANT: Yamada, Tadataka
APPLICANT: Ganz, Ira
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSER: Harmsen, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
```

CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/671,525B  
FILING DATE: June 27, 1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ. ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-671-525B-8

Query Match 100.0%; Score 92; DB 1; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17  
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 3  
US-08-672-109B-8  
Sequence 8, Application US/08672109B  
Patent No. 5710265  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/672,109B  
FILING DATE: June 27, 1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ. ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-672-109B-8

Query Match 100.0%; Score 92; DB 1; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17  
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 4  
US-08-842-045-8  
Sequence 8, Application US/08842045  
Patent No. 581787  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/842,045  
FILING DATE:  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVE  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ. ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-842-045-8

Query Match 100.0%; Score 92; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17  
Db 147 RYFTTFYALQYHNIMTV 163

RESULT 5  
US-08-842-238-8  
Sequence 8, Application US/08842238  
Patent No. 5869257  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/842,238  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVD  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-842-238-8

Query Match 100.0%; Score 92; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 6  
US-08-662-560-2  
Sequence 2, Application US/08662560  
Patent No. 5908609  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10036/2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/662,560  
FILING DATE: 10-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Coruzzi, Laura A.  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-060  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-790-9090  
TELEFAX: 212-869-8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-662-560-2

Query Match 100.0%; Score 92; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
Db 147 RYFTIFYALQYHNIMTV 163

RESULT 7  
US-08-780-749A-2  
Sequence 2, Application US/08780749A  
Patent No. 5932779  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036/2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/780,749A  
FILING DATE: 08-JAN-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Laura A. Coruzzi  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-064  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-8864/9741  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-780-749A-2

Query Match 100.0%; Score 92; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
Db 147 RYFTIFYALQYHNIMTV 163

## RESULT 8

US-08-780-749A-6

Sequence 6, Application US/08780749A  
Patent No. 5932779

## GENERAL INFORMATION:

APPLICANT: Lee, Frank  
APPLICANT: Huszar, Dennis  
APPLICANT: Gu, WeiTITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
USEFUL IN THE REGULATION OF BODY WEIGHT

NUMBER OF SEQUENCES: 10

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036/2711

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 2.0

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/780,749A

FILING DATE: 08-JAN-1997

## CLASSIFICATION: 800

## ATTORNEY/AGENT INFORMATION:

NAME: Laura A. Coruzzi

REGISTRATION NUMBER: 30,742

REFERENCE/DOCKET NUMBER: 7853-064

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-8864/9741

## INFORMATION FOR SEQ ID NO: 6:

## SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-780-749A-6

## Query Match

Best Local Similarity 100.0%; Score 92; DB 2; Length 332;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17  
Db 147 RYFTTFYALQYHNIMTV 163

## RESULT 9

US-08-706-281A-16

Sequence 16, Application US/08706281A  
Patent No. 6100048

## GENERAL INFORMATION:

APPLICANT: Cone, Roger D

APPLICANT: Fan, Wei

APPLICANT: Boston, Bruce A

APPLICANT: Keesterton, Robert A

APPLICANT: Lu, Dongxi

APPLICANT: Chen, Wendiao

TITLE OF INVENTION: Methods and Reagents for Discovering and

TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists

NUMBER OF SEQUENCES: 19

## CORRESPONDENCE ADDRESS:

ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60606

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/706,281A

FILING DATE: 04-SEP-1996

## CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: No. 6100048nan, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 96,886

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-913-0001

TELEFAX: 312-913-0002

## INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-706-281A-16

## Query Match

Best Local Similarity 100.0%; Score 92; DB 3; Length 332;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTTFYALQYHNIMTV 17  
Db 147 RYFTTFYALQYHNIMTV 163

## RESULT 10

US-08-629-335B-8

Sequence 8, Application US/08629335B  
Patent No. 6117975

## GENERAL INFORMATION:

APPLICANT: Yamada, Tadataka

APPLICANT: Gantz, Ira

TITLE OF INVENTION: Genes Encoding Melanocortin Receptors

NUMBER OF SEQUENCES: 23

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Harness, Dickey &amp; Pierce, P.L.C.

STREET: P.O. Box 828

CITY: Bloomfield Hills

STATE: MI

COUNTRY: US

ZIP: 48303

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/629,335B

FILING DATE: July 23, 1996

## CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: Smith, Deann F.

REGISTRATION NUMBER: 36683

REFERENCE/DOCKET NUMBER: 2115-000853DVA

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (810)641-1600

TELEFAX: (810)641-0270

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-629-335B-8

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17  
DB 147 RYFTIFALQYHNIMTV 163

RESULT 11  
US-09-097-231-16  
Sequence 16, Application US/09097231  
Patent No. 6278038

GENERAL INFORMATION:  
APPLICANT: Cone, Roger D  
Chem, Menbiao  
Low, Malcolm J  
TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/097,231  
FILING DATE: 12-Jun-1998  
CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:  
NAME: No. 6278038nan, Kevin E  
REGISTRATION NUMBER: 35,303  
REFERENCE/DOCKET NUMBER: 96,886-C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-913-0001  
TELEFAX: 312-913-0002  
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-09-097-231-16

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17  
DB 147 RYFTIFALQYHNIMTV 163

RESULT 12  
US-08-870-511-2  
Sequence 2, Application US/08870511  
Patent No. 6287763  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzar, Dennis

APPLICANT: Gu, Wei  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 2  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-2

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17  
DB 147 RYFTIFALQYHNIMTV 163

RESULT 13  
US-08-870-511-6  
Sequence 6, Application US/08870511  
Patent No. 6287763

GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzar, Dennis  
APPLICANT: Gu, Wei  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 6  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-6

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFALQYHNIMTV 17  
DB 147 RYFTIFALQYHNIMTV 163

RESULT 14  
US-08-870-511-8  
Sequence 8, Application US/08870511  
Patent No. 6287763

GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzar, Dennis  
APPLICANT: Gu, Wei  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 8  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-8

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
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Db 147 RYFTIFYALQYHNIMTV 163

## RESULT 15

US-08-870-511-10  
; Sequence 10; Application US/08870511  
; Patent No. 6287763  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Husezat, Dennis  
; APPLICANT: Gu, Wei  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT  
; FILE REFERENCE: 7853-083  
; CURRENT APPLICATION NUMBER: US/08/870,511  
; CURRENT FILING DATE: 1997-06-06  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-08-870-511-10

Query Match 100.0%; Score 92; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.4e-07;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
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Db 147 RYFTIFYALQYHNIMTV 163

Search completed: January 3, 2005, 18:07:20  
Job time : 22.5636 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd

OM protein - protein search, using sw model

Run on: January 3, 2005, 18:03:38 ; Search time 79.1273 Seconds

Title: US-09-884-211B-4\_COPY\_147\_163

Sequence: 1 RYFTIFYALQYHNIMTV 17

Scoring table: BIOSUM62

Searched: 1599051 beqs, 35972711 residues

Total number of hits satisfying chosen parameters: 1599051

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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**Pred. NO.** is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

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2	92	100.0	248	17	US-10-816-304-4	Sequence 4, Appl1
3	92	100.0	293	14	US-10-207-330-8	Sequence 8, Appl1
4	92	100.0	311	17	US-10-834-485-3	Sequence 3, Appl1
5	92	100.0	311	17	US-10-816-304-3	Sequence 3, Appl1
6	92	100.0	332	10	US-09-876-252-74	Sequence 74, Appl1
7	92	100.0	332	10	US-09-884-252-136	Sequence 136, Appl1
8	92	100.0	332	10	US-09-884-211A-3	Sequence 3, Appl1
9	92	100.0	332	10	US-09-884-211A-4	Sequence 4, Appl1
10	92	100.0	332	10	US-09-910-180-2	Sequence 2, Appl1
11	92	100.0	332	14	US-10-226-594-4	Sequence 4, Appl1
12	92	100.0	332	14	US-10-207-330-9	Sequence 9, Appl1
13	92	100.0	332	14	US-10-288-160-16	Sequence 16, Appl1

14	92	100.0	332	14	US-10-074-554-2	Sequence 2, Appl 1
15	92	100.0	332	14	US-10-925-567A-158	Sequence 159, App
16	92	100.0	332	14	US-10-373-355-2	Sequence 2, Appl 1
17	92	100.0	332	14	US-10-318-661-27	Sequence 27, Appl 1
18	92	100.0	332	14	US-10-413-752-2	Sequence 2, Appl 1
19	92	100.0	332	14	US-10-413-752-6	Sequence 6, Appl 1
20	92	100.0	332	14	US-10-417-820A-74	Sequence 74, Appl 1
21	92	100.0	332	14	US-10-417-820A-136	Sequence 136, App
22	92	100.0	332	16	US-10-723-953-74	Sequence 74, Appl 1
23	92	100.0	332	16	US-10-723-955-136	Sequence 136, App
24	83	90.2	332	14	US-10-207-330-6	Sequence 6, Appl 1
25	76	82.6	323	9	US-09-903-395-2	Sequence 2, Appl 1
26	76	82.6	323	10	US-09-826-509-523	Sequence 523, App
27	76	82.6	323	14	US-10-288-160-12	Sequence 12, Appl 1
28	76	82.6	325	14	US-10-256-089-2	Sequence 2, Appl 1
29	76	82.6	360	14	US-10-326-594-3	Sequence 3, Appl 1
30	76	82.6	360	14	US-10-325-567A-156	Sequence 156, App
31	76	82.6	360	14	US-10-413-752-1	Sequence 1, Appl 1
32	73	79.3	325	14	US-10-288-160-18	Sequence 18, Appl 1
33	72	78.3	325	13	US-10-052-545-16	Sequence 16, Appl 1
34	72	78.3	325	14	US-10-325-567A-160	Sequence 160, Appl 1
35	72	78.3	325	14	US-10-369-022-40	Sequence 40, Appl 1
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37	69	75.0	296	13	US-10-015-948-2	Sequence 2, Appl 1
38	69	75.0	297	14	US-10-288-160-10	Sequence 10, Appl 1
39	66	71.7	30	15	US-10-296-734-1128	Sequence 1128, App
40	66	71.7	124	13	US-10-052-545-12	Sequence 12, Appl 1
41	66	71.7	315	14	US-10-288-160-4	Sequence 4, Appl 1
42	66	71.7	317	13	US-10-052-545-2	Sequence 2, Appl 1
43	66	71.7	317	14	US-10-326-594-1	Sequence 1, Appl 1
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45	66	71.7	317	14	US-10-325-567A-162	Sequence 162, App

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RESULT 1
US-10-834-485-4
; Sequence 4, Application US/10834485
; Publication No. US20040235030A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Larsen, Neils
; APPLICANT: Kim, Kwan
; TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fatness in Animals
; TITLE OF INVENTION: Weight Gain, and/or Feed Consumption in Animals
; FILE REFERENCE: ISURF 2413
; CURRENT APPLICATION NUMBER: US/10/834,485
; CURRENT FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/380,419C
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Sus scrofa
US-10-834-485-4

Query Match          100.0%; Score 92; DB 17; Length 248;
Beat Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db       75 RYFTTFYALQYHNIMTV 91

RESULT 2
US-10-816-304-4
; Sequence 4, Application US/10816304
; Publication No. US20040261138A1
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/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 4
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-816-304-4
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Query Match          100.0%; Score 92; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
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Db       75 RYFTTFYALQYHNIMTV 91
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US-10-207-330-8
/ Sequence 8, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Kochendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
/ APPLICANT: Botti, Paolo
/ APPLICANT: Gryphon Sciences
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ TITLE OF INVENTION: of Membrane Polypeptides
/ FILE REFERENCE: gfrn-028/02MO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ PRIOR FILING DATE: 2002-07-30
/ PRIOR APPLICATION NUMBER: US/09/384,302
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR APPLICATION NUMBER: 09/144,964
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR APPLICATION NUMBER: 09/263,971
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 293
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-8
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Best Local Similarity 100.0%; Pred. No. 3.3e-06;
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US-10-834-485-3
/ Sequence 3, Application US/10834485
/ Publication No. US20040235030A1
/ GENERAL INFORMATION:
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/ APPLICANT: Rothschild, Max F.
/ APPLICANT: Larsen, Neils
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
/ FILE REFERENCE: ISURF 2413
/ CURRENT APPLICATION NUMBER: US/10/834,485
/ PRIOR FILING DATE: 2004-04-29
/ PRIOR FILING DATE: 2000-07-24
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (298)..(298)
/ OTHER INFORMATION: "X" can be any amino acid
US-10-834-485-3
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US-10-816-304-3
/ Sequence 3, Application US/10816304
/ Publication No. US20040261138A1
/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ TITLE OF INVENTION: Animals
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ PRIOR FILING DATE: 2004-04-01
/ PRIOR APPLICATION NUMBER: US/09/538,165
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 3
/ LENGTH: 311
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (298)..(298)
/ OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
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/ Sequence 74, Application US/09876252
/ Publication No. US20030018182A1
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Dominic P.
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APPLICANT: Lehmann-Brulsma, Karin  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Lowitz, Kevin P.  
APPLICANT: Lin, I-Lin  
APPLICANT: Dang, Huong T.  
APPLICANT: Chen, Ruoping  
APPLICANT: Law, Chen W.  
TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re  
FILE REFERENCE: AREN-0054  
CURRENT APPLICATION NUMBER: US/09/876,252  
CURRENT FILING DATE: 2001-06-07  
PRIOR APPLICATION NUMBER: 09/416,760  
PRIOR FILING DATE: 1999-10-12  
PRIOR APPLICATION NUMBER: 09/170,496  
PRIOR FILING DATE: 1998-10-13  
PRIOR APPLICATION NUMBER: 60/110,060  
PRIOR FILING DATE: 1998-11-27  
PRIOR APPLICATION NUMBER: 60/120,416  
PRIOR FILING DATE: 1999-02-16  
PRIOR APPLICATION NUMBER: 60/121,852  
PRIOR FILING DATE: 1999-02-26  
PRIOR APPLICATION NUMBER: 60/109,213  
PRIOR FILING DATE: 1998-11-20  
PRIOR APPLICATION NUMBER: 60/123,944  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,945  
PRIOR FILING DATE: 1999-03-12  
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PRIOR APPLICATION NUMBER: 60/123,951  
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PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,949  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/152,524  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/151,114  
PRIOR FILING DATE: 1999-08-27  
PRIOR APPLICATION NUMBER: 60/108,029  
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PRIOR FILING DATE: 1999-05-28  
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PRIOR FILING DATE: 1999-06-29  
PRIOR APPLICATION NUMBER: 60/136,437  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/156,555  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: 60/156,634  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: 60/156,653  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: 60/157,280  
PRIOR FILING DATE: 1999-10-01  
PRIOR APPLICATION NUMBER: 60/157,294  
PRIOR FILING DATE: 1999-10-01  
PRIOR APPLICATION NUMBER: 60/157,281  
PRIOR FILING DATE: 1999-10-01  
PRIOR APPLICATION NUMBER: 60/157,282  
PRIOR FILING DATE: 1999-10-01  
PRIOR APPLICATION NUMBER: 60/156,633  
PRIOR FILING DATE: 1999-09-29  
NUMBER OF SEQ ID NOS: 146  
SOFTWARE: PatentIn version 3.0

SEQ ID NO 74  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-876-252-74  
Query Match 100.0%; Score 92; DB 10; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 11/ Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 RYPTIFALQYHNIMTV 17  
Db 147 RYPTIFALQYHNIMTV 163  
RESULT 7  
US-09-876-252-136  
Sequence 136, Application US/09876252  
Publication No. US20030018182A1  
GENERAL INFORMATION:  
APPLICANT: Behan, Dominic P.  
APPLICANT: Lehmann-Brulsma, Karin  
APPLICANT: Chalmers, Derek T.  
APPLICANT: Lowitz, Kevin P.  
APPLICANT: Lin, I-Lin  
APPLICANT: Dang, Huong T.  
APPLICANT: Chen, Ruoping  
APPLICANT: Law, Chen W.  
TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re  
FILE REFERENCE: AREN-0054  
CURRENT APPLICATION NUMBER: US/09/876,252  
CURRENT FILING DATE: 2001-06-07  
PRIOR APPLICATION NUMBER: 09/416,760  
PRIOR FILING DATE: 1999-10-12  
PRIOR APPLICATION NUMBER: 09/170,496  
PRIOR FILING DATE: 1998-10-13  
PRIOR APPLICATION NUMBER: 60/110,060  
PRIOR FILING DATE: 1998-11-27  
PRIOR APPLICATION NUMBER: 60/120,416  
PRIOR FILING DATE: 1999-02-16  
PRIOR APPLICATION NUMBER: 60/121,852  
PRIOR FILING DATE: 1999-02-26  
PRIOR APPLICATION NUMBER: 60/109,213  
PRIOR FILING DATE: 1998-11-20  
PRIOR APPLICATION NUMBER: 60/123,944  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,945  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,948  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,951  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/123,946  
PRIOR FILING DATE: 1999-03-12  
PRIOR APPLICATION NUMBER: 60/152,524  
PRIOR FILING DATE: 1999-08-27  
PRIOR APPLICATION NUMBER: 60/108,029  
PRIOR FILING DATE: 1998-11-12  
PRIOR APPLICATION NUMBER: 60/136,436  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/136,439  
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PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/137,127  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/137,131  
PRIOR FILING DATE: 1999-05-28  
PRIOR APPLICATION NUMBER: 60/141,448

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2  PRIOR APPLICATION NUMBER: 60/136,437
3  PRIOR FILING DATE: 1999-05-28
4  PRIOR APPLICATION NUMBER: 60/156,555
5  PRIOR FILING DATE: 1999-09-29
6  PRIOR APPLICATION NUMBER: 60/156,634
7  PRIOR FILING DATE: 1999-09-29
8  PRIOR APPLICATION NUMBER: 60/156,653
9  PRIOR FILING DATE: 1999-09-29
10 PRIOR APPLICATION NUMBER: 60/157,280
11 PRIOR FILING DATE: 1999-10-01
12 PRIOR APPLICATION NUMBER: 60/157,234
13 PRIOR FILING DATE: 1999-10-01
14 PRIOR APPLICATION NUMBER: 60/157,281
15 PRIOR FILING DATE: 1999-10-01
16 PRIOR APPLICATION NUMBER: 60/157,282
17 PRIOR FILING DATE: 1999-10-01
18 PRIOR APPLICATION NUMBER: 60/156,633
19 PRIOR FILING DATE: 1999-09-29
20 NUMBER OF SEQ ID NOS: 146
21 SOFTWARE: PatentIn version 3.0
22 SEQ ID NO 136
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24     TYPE: prt
25     ORGANISM: Homo sapiens
26     US-09-876-252-136

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Query Match	100.0%	Score 92	DB 10	Length 332
Best Local Similarity	100.0%	Pred. No. 3.8e-06		
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Db     147 RYFTIFYALQYHNIMTV 163
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RESULT 8
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; Sequence 3, Application US/0984211A
; Publication No. US2003032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et., al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: P010743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Feline MCar protein Sequence
US-09-884-211A-3

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	Query Match	Score	DB	Length
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	Best Local Similarity	100.0%	Pred. No.	3.8e-06
Matches	17	Conservative	0	Mismatches 0; Indels 0; Gaps 0
QY	1	RYFTTFYALQYHNIMTV	17	
DB	147	RYFTTFYALQYHNIMTV	163	

RESULT 9  
US-09-884-211A-4  
; Sequence 4, Application US/09884211A  
; Publication No. US20030032791A1  
; GENERAL INFORMATION:  
; APPLICANT: Alan et, al.

```

1  TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
2  TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
3  TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
4  FILE REFERENCE: P010743A
5  CURRENT APPLICATION NUMBER: US/09/884,211A
6  CURRENT FILING DATE: 2000-06-26
7  PRIOR APPLICATION NUMBER: 60/213,909
8  PRIOR FILING DATE: 2000-06-26
9  NUMBER OF SEQ ID NOS: 6
10 SOFTWARE: PatentIn Ver. 2.1
11 SEQ ID NO 4
12 LENGTH: 332
13 TYPE: PRT
14 ORGANISM: Canine MC4R protein Sequence
15 US-09-884-211A-4

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Query Match      100.0%   Score 92;  DB 10;  length 332;
Best Local Similarity 100.0%   Pred. No. 3.8e-06;
Matches 17;  Conservative 0;  Mismatches 0;  Gaps 0;

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QY      1 RYFTIFYALQYHNIMTV 17
         |||||
Db      147 RYFTIFYALQYHNIMTV 163
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US-09-910-180-2
RESULT 10
US-09-910-180-2
; Sequence 2, Application US/09910180
; Publication NO. US20030082678A1
; GENERAL INFORMATION:
; APPLICANT: Heising, Hansen
; APPLICANT: Dennis
; APPLICANT: Zhang, Ying-Yue
; TITLE OF INVENTION: METHODS AND COMPOSITIONS
; FILE REFERENCE: P-12621
; CURRENT APPLICATION NUMBER: US/09/910,180
; CURRENT FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 332
; TYPE: prt
; ORGANISM: Bovine
US-09-910-180-2

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Query Match	100.0%	Score 92;	DB 10;	Length 332;
Best Local Similarity	100.0%;	Pred. No. 3.8e-06;		
Matches 17;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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QY      1 RYFTIFYALQYHNIMTV 17
        |||||
Db      147 RYFTIFYALQYHNIMTV 163
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1 RESULT 11
2 US-10-226-594-4
3 : Sequence 4, Application US/10/226594
4 : Publication No. US20030017966A1
5 : GENERAL INFORMATION:
6 : APPLICANT: Duman, Ronald
7 : TITLE OF INVENTION: MC-4R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
8 : TITLE OF INVENTION: USED TO TREAT DRUG ADDICTION
9 : FILE REFERENCE: 07334-101001
10 : CURRENT APPLICATION NUMBER: US/10/226,594
11 : CURRENT FILING DATE: 2002-08-23
12 : PRIOR APPLICATION NUMBER: US/09/385,763
13 : PRIOR FILING DATE: 1999-08-30
14 : PRIOR APPLICATION NUMBER: US 60/099,104
15 : PRIOR FILING DATE: 1998-09-03
16 : NUMBER OF SEQ ID NOS: 4
17 : SOFTWARE: FaSTSeq for Windows Version 4.0
18 : SEQ ID NO 4
19 : LENGTH: 332

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TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-226-594-4

Query Match 100.0%; Score 92; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17  
Db 147 RYFTFYALQYHNIMTV 163

RESULT 12  
US-10-207-330-9  
Sequence 9, Application US/10207330  
Publication No. US20030018169A1  
GENERAL INFORMATION:  
APPLICANT: Kochendoerfer, Gerd G  
APPLICANT: Hunter, Christie L  
APPLICANT: Kent, Stephen B.H.  
APPLICANT: Botli, Paolo  
APPLICANT: Gryphon Sciences  
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis  
TITLE OF INVENTION: of Membrane Polypeptides  
FILE REFERENCE: grfn-028/028MO  
CURRENT APPLICATION NUMBER: US/10/207,330  
CURRENT FILING DATE: 2002-07-30  
PRIOR APPLICATION NUMBER: US/09/384,302  
PRIOR FILING DATE: 1999-08-26  
PRIOR APPLICATION NUMBER: 09/144,964  
PRIOR FILING DATE: 1998-08-31  
PRIOR APPLICATION NUMBER: 09/263,971  
PRIOR FILING DATE: 1999-03-05  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-207-330-9

Query Match 100.0%; Score 92; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17  
Db 147 RYFTFYALQYHNIMTV 163

RESULT 13  
US-10-288-160-16  
Sequence 16, Application US/10288160  
Publication No. US20030105024A1  
GENERAL INFORMATION:  
APPLICANT: Cone, Roger D  
APPLICANT: Fan, Wei  
APPLICANT: Boston, Bruce A  
APPLICANT: Kesteron, Robert A  
APPLICANT: Lu, Dongxi  
APPLICANT: Chen, Wenbiao  
TITLE OF INVENTION: Methods and Reagents for Discovering and  
Using Mammalian Melanocortin Receptor Agonists and Antagoni  
To Modulate Feeding Behavior in Animals  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive  
CITY: Chicago  
STATE: IL

COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/288,160  
FILING DATE: 05-NO. US20030105024A1-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/706,281  
FILING DATE: 04-SEP-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: No. US20030105024A1man, Kevin E  
REGISTRATION NUMBER: 35,303  
REFERENCE/DOCKET NUMBER: 96,886  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-913-0001  
TELEFAX: 312-913-0002  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-10-288-160-16

Query Match 100.0%; Score 92; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17  
Db 147 RYFTFYALQYHNIMTV 163

RESULT 14  
US-10-074-754-2  
Sequence 2, Application US/10074754  
Publication No. US20030113263A1  
GENERAL INFORMATION:  
APPLICANT: Marks, Daniel L.  
APPLICANT: Cone, Roger D.  
TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat  
TITLE OF INVENTION: Cachexia  
FILE REFERENCE: 96-886  
CURRENT APPLICATION NUMBER: US/10/074,754  
CURRENT FILING DATE: 2002-02-13  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-074-754-2

Query Match 100.0%; Score 92; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RYFTFYALQYHNIMTV 17  
Db 147 RYFTFYALQYHNIMTV 163

RESULT 15  
US-10-225-567A-158  
Sequence 158, Application US/10225567A

/ Publication No. US20030113798A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Lifespan Biosciences  
/ APPLICANT: Brown, Joseph P.  
/ APPLICANT: Burner, Glenna C.  
/ APPLICANT: Roush, Christine L.  
/ TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS  
/ FILE REFERENCE: 1920-4-4  
/ CURRENT APPLICATION NUMBER: US/10/225,567A  
/ CURRENT FILING DATE: 2001-12-19  
/ PRIOR APPLICATION NUMBER: 60/257,144  
/ PRIOR FILING DATE: 2000-12-19  
/ NUMBER OF SEQ ID NOS: 2292  
/ SOFTWARE: PatentIn version 3.1  
/ SEQ ID NO 158  
/ LENGTH: 332  
/ TYPE: PRT  
/ ORGANISM: Homo sapiens  
US-10-225-567A-158

Query Match 100.0%; Score 92; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 3.8e-06;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RYFTIFYALQYHNIMTV 17  
|||  
Db 147 RYFTIFYALQYHNIMTV 163

Search completed: January 3, 2005, 18:26:56  
Job time : 80.1273 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 3, 2005, 17:54:27 ; Search time 38.4909 Seconds  
(without alignments)  
49.966 Million cell updates/sec

Title: US-09-884-211b-4\_COPY\_216\_244  
Perfect score: 145  
Sequence: 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: \*  
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2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep: \*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	140	96.6	293	4	US-09-384-302A-8
2	140	96.6	332	1	US-08-671-525B-8
3	140	96.6	332	1	US-08-672-109B-8
4	140	96.6	332	2	US-08-842-045-8
5	140	96.6	332	2	US-08-842-238-8
6	140	96.6	332	2	US-08-662-560-2
7	140	96.6	332	2	US-08-780-749A-2
8	140	96.6	332	2	US-08-780-749A-6
9	140	96.6	332	3	US-08-706-281A-16
10	140	96.6	332	3	US-08-629-335B-8
11	140	96.6	332	3	US-09-097-231-16
12	140	96.6	332	3	US-08-870-511-2
13	140	96.6	332	3	US-08-870-511-6
14	140	96.6	332	3	US-08-870-511-8
15	140	96.6	332	3	US-08-870-511-10
16	140	96.6	332	3	US-08-870-511-12
17	140	96.6	332	4	US-09-384-302A-6
18	140	96.6	332	4	US-09-384-302A-9
19	140	96.6	332	4	US-09-353-039-16
20	140	96.6	332	4	US-09-831-206-2
21	81	55.9	323	4	US-09-709-066-2
22	81	55.9	325	1	US-08-671-525B-10
23	81	55.9	325	1	US-08-672-109B-10
24	81	55.9	325	2	US-08-842-045-10
25	81	55.9	325	2	US-08-842-238-10
26	81	55.9	325	3	US-08-706-281A-18
27	81	55.9	325	3	US-08-629-335B-10

28	81	55.9	325	3	US-09-097-231-18	Sequence 18, Appl
29	81	55.9	325	4	US-09-353-099-18	Sequence 18, Appl
30	80	55.2	325	4	US-09-831-228-2	Sequence 2, Appl
31	72	49.7	104	4	US-08-387-805-10	Sequence 10, Appl
32	72	49.7	360	1	US-08-671-525B-6	Sequence 6, Appl
33	72	49.7	360	1	US-08-672-109B-6	Sequence 6, Appl
34	72	49.7	360	2	US-08-842-045-6	Sequence 6, Appl
35	72	49.7	360	2	US-08-842-238-6	Sequence 6, Appl
36	72	49.7	360	2	US-08-780-749A-1	Sequence 1, Appl
37	72	49.7	360	3	US-08-629-335B-6	Sequence 6, Appl
38	72	49.7	360	3	US-08-870-511-1	Sequence 1, Appl
39	72	49.7	360	4	US-09-709-066-4	Sequence 4, Appl
40	70	48.3	102	4	US-08-387-805-8	Sequence 8, Appl
41	69	47.6	325	4	US-08-387-805-16	Sequence 16, Appl
42	68	46.9	323	2	US-08-044-812A-4	Sequence 4, Appl
43	68	46.9	323	2	US-08-475-637-4	Sequence 4, Appl
44	68	46.9	323	3	US-09-191-359-4	Sequence 4, Appl
45	67	46.2	323	3	US-08-706-281A-12	Sequence 12, Appl

## ALIGNMENTS

```
RESULT 1
US-09-384-302A-8
; Sequence 8, Application US/09384302A
; Patent No. 6451543
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Botti, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/09/384,302A
; CURRENT FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-384-302A-8
Query Match          96.6%; Score 140; DB 4; Length 293;
Best Local Similarity 96.6%; Pred. No. 6.2e-15;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29
      |||||
Db      177 FLMARLHKRIAVLPGTGTIRQGANMKGA 205

RESULT 2
US-08-671-525B-8
; Sequence 8, Application US/08671525B
; Patent No. 5703220
; GENERAL INFORMATION:
; APPLICANT: Yamada, Tadataka
; APPLICANT: Gantz, Iira
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
```

CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/671,525B  
FILING DATE: June 27, 1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-671-525B-8

Query Match 96.6%; Score 140; DB 1; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29  
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 3  
US-08-672-109B-8  
Sequence 8, Application US/08672109B  
Patent No. 5710265  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/672,109B  
FILING DATE: June 27, 1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-672-109B-8

Query Match 96.6%; Score 140; DB 1; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29  
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 4  
US-08-842-045-8  
Sequence 8, Application US/08842045  
Patent No. 581787  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/842,045  
FILING DATE:  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Deann F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVE  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-842-045-8

Query Match 96.6%; Score 140; DB 2; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FIMARLHKRIAVLPETGIRGANNKGA 29  
DB 216 FIMARLHKRIAVLPETGIRGANNKGA 244

RESULT 5  
US-08-842-238-8  
Sequence 8, Application US/08842238  
Patent No. 5869257  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Harness, Dickey & Pierce, P.L.C.

STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/842,238  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Dean F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVD  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-842-238-8

Query Match 96.6%; Score 140; DB 2; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29  
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

RESULT 6  
US-08-662-560-2  
Sequence 2, Application US/08662560  
Patent No. 5908609  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huszar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10036/2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/662,560  
FILING DATE: 10-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Coruzzi, Laura A.  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-060  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-790-9090  
TELEFAX: 212-869-8864  
TELEX: 66141 PENNIB  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-662-560-2

Query Match 96.6%; Score 140; DB 2; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29  
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

RESULT 7  
US-08-780-749A-2  
Sequence 2, Application US/08780749A  
Patent No. 5932779  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huszar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036/2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/780,749A  
FILING DATE: 08-JAN-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Laura A. Coruzzi  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-064  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-8864/9741  
TELEX: 66141 PENNIB  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-780-749A-2

Query Match 96.6%; Score 140; DB 2; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAVLPGTGTIRQGANMKGA 29  
Db 216 FLMARLHKRIAVLPGTGTIRQGANMKGA 244

## RESULT 8

US-08-780-749A-6  
; Sequence 6, Application US/08780749A  
; Patent No. 5932779  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Huszar, Dennis  
; APPLICANT: Gu, Wei  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036/2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/780,749A  
; FILING DATE: 08-JAN-1997  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Laura A. Coruzzi  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7853-064  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; US-08-780-749A-6

## Query Match

Best Local Similarity 96.6%; Score 140; DB 2; Length 332;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAYLPETGTRIGRANMKGA 29

Db 216 FLMARLHKRIAYLPETGTRIGRANMKGA 244

## RESULT 9

US-08-706-281A-16  
; Sequence 16, Application US/08706281A  
; Patent No. 6100048  
; GENERAL INFORMATION:  
; APPLICANT: Cone, Roger D  
; APPLICANT: Fan, Wei  
; APPLICANT: Boston, Bruce A  
; APPLICANT: Keesteron, Robert A  
; APPLICANT: Lu, Dongxi  
; APPLICANT: Chen, Wendiao  
; TITLE OF INVENTION: Methods and Reagents for Discovering and  
; TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists  
; TITLE OF INVENTION: To Modulate Feeding Behavior in Animals  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
; STREET: 300 South Wacker Drive

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/706,281A

FILING DATE: 04-SEP-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: NO. 6100048man, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 96,886

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-913-0001

TELEFAX: 312-913-0002

TELEX:

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-706-281A-16

## Query Match

Best Local Similarity 96.6%; Score 140; DB 3; Length 332;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHKRIAYLPETGTRIGRANMKGA 29

Db 216 FLMARLHKRIAYLPETGTRIGRANMKGA 244

## RESULT 10

US-08-629-335B-8  
; Sequence 8, Application US/08629335B  
; Patent No. 6117975  
; GENERAL INFORMATION:  
; APPLICANT: Yamada, Tadataka  
; APPLICANT: Gantz, Ira  
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
; STREET: P.O. Box 828  
; CITY: Bloomfield Hills  
; STATE: MI  
; COUNTRY: US  
; ZIP: 48303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/629,335B  
; FILING DATE: July 23, 1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, Dean F.  
; REGISTRATION NUMBER: 36683  
; REFERENCE/DOCKET NUMBER: 2115-000853DVA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (810)641-1600  
; TELEFAX: (810)641-0270  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids



TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-629-335B-8

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29  
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 11  
US-09-097-231-16  
Sequence 16, Application US/09097231  
Patent No. 6278038  
GENERAL INFORMATION:  
APPLICANT: Cone, Roger D  
Chen, Weibiao  
Low, Malcolm J  
TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/097,231  
FILING DATE: 12-Jun-1998  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 6278038nan, Kevin E  
REGISTRATION NUMBER: 35,303  
REFERENCE/DOCKET NUMBER: 96,886-C  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-913-0001  
TELEFAX: 312-913-0002  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-09-097-231-16

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29  
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 12  
US-08-870-511-2  
Sequence 2, Application US/08870511  
Patent No. 6287763  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzsar, Dennis

APPLICANT: Gu, Wei  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
TITLE OF INVENTION: REGULATION OF BODY WEIGHT  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 2  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-2

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29  
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 13  
US-08-870-511-6  
Sequence 6, Application US/08870511  
Patent No. 6287763  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzsar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
TITLE OF INVENTION: REGULATION OF BODY WEIGHT  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 6  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-6

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLMARLHKRIAVLPGTGTRQGANMKGA 29  
DB 216 FLMARLHKRIAVLPGTGTRQGANMKGA 244

RESULT 14  
US-08-870-511-8  
Sequence 8, Application US/08870511  
Patent No. 6287763  
GENERAL INFORMATION:  
APPLICANT: Lee, Frank  
APPLICANT: Huzsar, Dennis  
TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
TITLE OF INVENTION: REGULATION OF BODY WEIGHT  
FILE REFERENCE: 7853-083  
CURRENT APPLICATION NUMBER: US/08/870,511  
CURRENT FILING DATE: 1997-06-06  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 8  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-870-511-8

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHIKRIAVLPGTGTIROGANMKGA 29  
|||  
Db 216 FLMARLHIKRIAVLPGTGTIROGANMKGA 244

## RESULT 15

US-08-870-511-10  
; Sequence 10; Application US/08870511  
; Patent No. 6287763  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Husezar, Dennis  
; APPLICANT: Gu, Wei  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE  
; FILE REFERENCE: 7853-083  
; CURRENT APPLICATION NUMBER: US/08/870,511  
; CURRENT FILING DATE: 1997-06-06  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-08-870-511-10

Query Match 96.6%; Score 140; DB 3; Length 332;  
Best Local Similarity 96.6%; Pred. No. 7.2e-15;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLMARLHIKRIAVLPGTGTIROGANMKGA 29  
|||  
Db 216 FLMARLHIKRIAVLPGTGTIROGANMKGA 244

Search completed: January 3, 2005, 18:07:21  
Job time : 39.4909 secs



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/ GENERAL INFORMATION:
/ APPLICANT: Rothschild, Max
/ APPLICANT: Emmett, Rebecca
/ APPLICANT: Kim, Kwan
/ TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
/ FILE OF INVENTION: Animals
/ FILE REFERENCE: ISURF 2697
/ CURRENT APPLICATION NUMBER: US/10/816,304
/ CURRENT FILING DATE: 2004-04-01
/ PRIOR APPLICATION NUMBER: US/09/538,165
/ PRIOR FILING DATE: 2000-03-30
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 4
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-816-304-4
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Query Match          100.0%; Score 145; DB 17; Length 248;
Best Local Similarity 100.0%; Pred. No. 1,9e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      144 FLMARLHKRIAVLPGTGTRIGANMKGA 172
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RESULT 3
US-09-884-211A-3
/ Sequence 3, Application US/09884211A
/ Publication No. US20030032791A1
/ GENERAL INFORMATION:
/ APPLICANT: Alan et, al.
/ TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
/ TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
/ FILE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
/ FILE REFERENCE: PC10743A
/ CURRENT APPLICATION NUMBER: US/09/884,211A
/ CURRENT FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: 60/213,909
/ PRIOR FILING DATE: 2000-06-26
/ NUMBER OF SEQ ID NOS: 6
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 3
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Feline MCR protein Sequence
US-09-884-211A-3
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```
Query Match          100.0%; Score 145; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 2,7e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
```

```
RESULT 4
US-09-884-211A-4
/ Sequence 4, Application US/09884211A
/ Publication No. US20030032791A1
/ GENERAL INFORMATION:
/ APPLICANT: Alan et, al.
/ TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
/ TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
/ FILE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
/ FILE REFERENCE: PC10743A
/ CURRENT APPLICATION NUMBER: US/09/884,211A
/ CURRENT FILING DATE: 2000-06-26
/ PRIOR APPLICATION NUMBER: 60/213,909
/ PRIOR FILING DATE: 2000-06-26
```

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/ NUMBER OF SEQ ID NOS: 6
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 4
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Canine MCR protein Sequence
US-09-884-211A-4
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```
Query Match          100.0%; Score 145; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 2,7e-14;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
```

```
RESULT 5
US-09-910-180-2
/ Sequence 2, Application US/09910180
/ Publication No. US20030082678A1
/ GENERAL INFORMATION:
/ APPLICANT: Hsiung, Hansen
/ APPLICANT: Smith, Dennis
/ APPLICANT: Zhang, King-Yue
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SPI
/ FILE REFERENCE: P-12621
/ CURRENT APPLICATION NUMBER: US/09/910,180
/ CURRENT FILING DATE: 2002-04-11
/ NUMBER OF SEQ ID NOS: 22
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 2
/ LENGTH: 332
/ TYPE: PRT
/ ORGANISM: Bovine
US-09-910-180-2
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Query Match          97.2%; Score 141; DB 10; Length 332;
Best Local Similarity 96.6%; Pred. No. 1,2e-13;
Matches 28; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FLMARLHKRIAVLPGTGTRIGANMKGA 29
Db      216 FLMARLHKRIAVLPGTGTRIGANMKGA 244
```

```
RESULT 6
US-10-207-330-8
/ Sequence 8, Application US/10207330
/ Publication No. US20030018169A1
/ GENERAL INFORMATION:
/ APPLICANT: Kochendoerfer, Gerd G
/ APPLICANT: Hunter, Christie L
/ APPLICANT: Kent, Stephen B.H.
/ APPLICANT: Botti, Paolo
/ APPLICANT: Gryphon Sciences
/ TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
/ FILE OF INVENTION: Of Membrane Polypeptides
/ FILE REFERENCE: grth-028/02MO
/ CURRENT APPLICATION NUMBER: US/10/207,330
/ CURRENT FILING DATE: 2002-07-30
/ PRIOR APPLICATION NUMBER: US/09/384,302
/ PRIOR FILING DATE: 1999-08-26
/ PRIOR APPLICATION NUMBER: 09/144,964
/ PRIOR FILING DATE: 1998-08-31
/ PRIOR APPLICATION NUMBER: 09/263,971
/ PRIOR FILING DATE: 1999-03-05
/ NUMBER OF SEQ ID NOS: 30
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 293
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-8
Query Match          96.6%; Score 140; DB 14; Length 293;
Best Local Similarity 96.6%; Pred. No. 1.4e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      177  FLMARLHKRIAVLPGTGAIROGANMKGA 205

RESULT 7
US-10-834-485-3
; Sequence 3, Application US/10834485
; Publication No. US20040235030A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Larsen, Neils
; APPLICANT: Kim, Kwan
; TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat
; FILE REFERENCE: ISURF 2413
; CURRENT APPLICATION NUMBER: US/10/834,485
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/380,419C
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (298)..(298)
; OTHER INFORMATION: "X" can be any amino acid
US-10-834-485-3

Query Match          96.6%; Score 140; DB 17; Length 311;
Best Local Similarity 96.6%; Pred. No. 1.5e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      174  FLMARLHKRIAVLPGTGAIROGANMKGA 202

RESULT 8
US-10-816-304-3
; Sequence 3, Application US/10816304
; Publication No. US20040261138A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max
; APPLICANT: Emmett, Rebecca
; APPLICANT: Kim, Kwan
; TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
; FILE REFERENCE: ISURF 2697
; CURRENT APPLICATION NUMBER: US/10/816,304
; PRIOR FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US/09/538,165
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (298)..(298)
```

```
; OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
Query Match          96.6%; Score 140; DB 17; Length 311;
Best Local Similarity 96.6%; Pred. No. 1.5e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  FLMARLHKRIAVLPGTGTROGANMKGA 29
Db      174  FLMARLHKRIAVLPGTGAIROGANMKGA 202

RESULT 9
US-09-876-252-74
; Sequence 74, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Brulsma, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,951
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/152,524
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/151,114
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: 60/108,029
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,127
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/141,448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
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; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 74
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-252-74
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Query Match          96.6%; Score 140; DB 10; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1  FLMARLHKRIAVLPGTGTRGANNKGA 29
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Db      216 FLMARLHKRIAVLPGTGTRGANNKGA 244
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RESULT 10
US-10-226-594-4
; Sequence 4, Application US/10226594
; Publication No. US20030017966A1
; GENERAL INFORMATION:
; APPLICANT: Duman, Ronald
; TITLE OF INVENTION: MC-R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS
; FILE REFERENCE: 07334-101001
; CURRENT APPLICATION NUMBER: US/10/226,594
; PRIOR FILING DATE: 2002-08-23
; PRIOR APPLICATION NUMBER: US/09/385,763
; PRIOR FILING DATE: 1999-08-30
; PRIOR APPLICATION NUMBER: US 60/099,104
; PRIOR FILING DATE: 1998-09-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-226-594-4
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1  FLMARLHKRIAVLPGTGTRGANNKGA 29
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Db      216 FLMARLHKRIAVLPGTGTRGANNKGA 244
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```

RESULT 11
US-10-207-330-6
; Sequence 6, Application US/10207330
; Publication No. US20030018169A1
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
```

```

; APPLICANT: Botli, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/10/207,330
; PRIOR FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US/09/384,302
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-6
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1  FLMARLHKRIAVLPGTGTRGANNKGA 29
          |||||
Db      216 FLMARLHKRIAVLPGTGTRGANNKGA 244
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RESULT 12
US-10-207-330-9
; Sequence 9, Application US/10207330
; Publication No. US20030018169A1
; GENERAL INFORMATION:
; APPLICANT: Kochendoerfer, Gerd G
; APPLICANT: Hunter, Christie L
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Botli, Paolo
; APPLICANT: Gryphon Sciences
; TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis
; FILE REFERENCE: grfn-028/02WO
; CURRENT APPLICATION NUMBER: US/10/207,330
; PRIOR FILING DATE: 2002-07-30
; PRIOR APPLICATION NUMBER: US/09/384,302
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 09/144,964
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 09/263,971
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-207-330-9
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Query Match          96.6%; Score 140; DB 14; Length 332;
Best Local Similarity 96.6%; Pred. No. 1.7e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1  FLMARLHKRIAVLPGTGTRGANNKGA 29
          |||||
Db      216 FLMARLHKRIAVLPGTGTRGANNKGA 244
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RESULT 13

US-10-288-160-16  
; Sequence 16, Application US/10288160  
; Publication No. US20030105024A1  
; GENERAL INFORMATION:  
; APPLICANT: Cone, Roger D  
; Fan, Wei  
; Boston, Bruce A  
; Kesterton, Robert A  
; Lu, Dongxi  
; Chen, Wendiao  
; TITLE OF INVENTION: Methods and Reagents for Discovering and  
; Using Mammalian Melanocortin Receptor Agonists and Antagoni  
; To Modulate Feeding Behavior in Animals  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
; STREET: 300 South Wacker Drive  
; CITY: Chicago  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/288,160  
; FILING DATE: 05-No. US20030105024A1-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/706,281  
; FILING DATE: 04-SEP-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. US20030105024A1nan, Kevin E  
; REGISTRATION NUMBER: 35,303  
; REFERENCE/DOCKET NUMBER: 96,886  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 312-913-0001  
; TELEFAX: 312-913-0002  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-10-288-160-16  
Query Match 96.6%; Score 140; DB 14; Length 332;  
Best Local Similarity 96.6%; Pred. No. 1.7e-13;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKG 29  
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKG 244  
RESULT 14  
US-10-074-754-2  
; Sequence 2, Application US/10074754  
; Publication No. US20030113263A1  
; GENERAL INFORMATION:  
; APPLICANT: Marks, Daniel L.  
; APPLICANT: Cone, Roger D.  
; TITLE OF INVENTION: Methods and Reagents for Discovering and Using  
; TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat  
; FILE REFERENCE: 96-886  
; CURRENT APPLICATION NUMBER: US/10/074,754  
; CURRENT FILING DATE: 2002-02-13  
; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-074-754-2  
Query Match 96.6%; Score 140; DB 14; Length 332;  
Best Local Similarity 96.6%; Pred. No. 1.7e-13;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKG 29  
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKG 244  
RESULT 15  
US-10-225-567A-158  
; Sequence 158, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: Lifespan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burner, Glenn C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn Version 3.1  
; SEQ ID NO 158  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-158  
Query Match 96.6%; Score 140; DB 14; Length 332;  
Best Local Similarity 96.6%; Pred. No. 1.7e-13;  
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FLMARLHKRIAVLPGTGTIRQGNMKG 29  
DB 216 FLMARLHKRIAVLPGTGTIRQGNMKG 244  
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Job time : 134.982 secs

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## OM protein - protein search, using sw model

Run on: January 3, 2005, 17:54:27 ; Search time 11.9455 Seconds

(without alignments)  
49.966 Million cell updates/sec

Title: US-09-884-211B-4\_COPY\_69\_77

Perfect score: 46

Sequence: 1 IAKNKMLHS 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

1: /cgn2\_6/prodata/1/1aa/5A COMB pep:\*

2: /cgn2\_6/prodata/1/1aa/5B COMB pep:\*

3: /cgn2\_6/prodata/1/1aa/6A COMB pep:\*

4: /cgn2\_6/prodata/1/1aa/6B COMB pep:\*

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	100.0	332	1	US-08-671-525B-8
2	46	100.0	332	1	US-08-672-109B-8
3	46	100.0	332	2	US-08-842-045-8
4	46	100.0	332	2	US-08-842-238-8
5	46	100.0	332	2	US-08-662-560-2
6	46	100.0	332	2	US-08-780-749A-2
7	46	100.0	332	2	US-08-780-749A-6
8	46	100.0	332	3	US-08-706-281A-16
9	46	100.0	332	3	US-08-629-335B-8
10	46	100.0	332	3	US-08-037-231-16
11	46	100.0	332	3	US-08-870-511-2
12	46	100.0	332	3	US-08-870-511-6
13	46	100.0	332	3	US-08-870-511-8
14	46	100.0	332	3	US-08-870-511-10
15	46	100.0	332	3	US-08-870-511-12
16	46	100.0	332	4	US-08-870-511-12
17	46	100.0	332	4	US-08-870-511-12
18	46	100.0	332	4	US-08-870-511-12
19	46	100.0	332	4	US-08-870-511-12
20	46	100.0	332	4	US-08-870-511-12
21	46	100.0	332	4	US-08-870-511-12
22	46	100.0	332	4	US-08-870-511-12
23	46	100.0	332	4	US-08-870-511-12
24	46	100.0	332	4	US-08-870-511-12
25	46	100.0	332	4	US-08-870-511-12
26	46	100.0	332	4	US-08-870-511-12
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28	43	93.5	317	3	US-08-706-281A-6	Sequence 6, Appl
29	43	93.5	317	3	US-08-629-335B-2	Sequence 2, Appl
30	43	93.5	317	3	US-09-201-746-6	Sequence 6, Appl
31	43	93.5	317	3	US-09-097-231-6	Sequence 6, Appl
32	43	93.5	317	3	US-08-870-511-4	Sequence 4, Appl
33	43	93.5	317	3	US-08-387-805-2	Sequence 2, Appl
34	43	93.5	317	4	US-09-353-099-6	Sequence 6, Appl
35	43	93.5	317	4	US-09-868-552-43	Sequence 43, Appl
36	43	93.5	317	4	US-09-868-552-44	Sequence 44, Appl
37	43	93.5	382	4	US-09-868-552-2	Sequence 2, Appl
38	43	93.5	382	4	US-09-868-552-4	Sequence 4, Appl
39	43	93.5	382	4	US-09-868-552-6	Sequence 6, Appl
40	43	93.5	382	4	US-09-868-552-8	Sequence 8, Appl
41	43	93.5	382	4	US-09-868-552-10	Sequence 10, Appl
42	43	93.5	382	4	US-09-868-552-12	Sequence 12, Appl
43	43	93.5	382	4	US-09-868-552-14	Sequence 14, Appl
44	43	93.5	382	4	US-09-868-552-17	Sequence 17, Appl
45	43	93.5	382	4	US-09-868-552-20	Sequence 20, Appl

## ALIGNMENTS

RESULT 1

US-08-671-525B-8

Sequence 8, Application US/08671525B

Patent No. 5703220

GENERAL INFORMATION:

APPLICANT: Yamada, Tadataka

INVENTOR: Gantz, Ira

TITLE OF INVENTION: Genes Encoding Melanocortin Receptors

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: Harness, Dickey & Pierce, P.L.C.

STREET: P.O. Box 828

CITY: Bloomfield Hills

STATE: MI

COUNTRY: US

ZIP: 48303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/671,525B

FILING DATE: June 27, 1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Smith, Deann F.

REGISTRATION NUMBER: 36683

REFERENCE/DOCKET NUMBER: 2115-000853DVB

TELECOMMUNICATION INFORMATION:

TELEPHONE: (810)641-1600

TELEFAX: (810)641-0270

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 332 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-671-525B-8

Query Match 100.0%; Score 46; DB 1, Length 332;

Best Local Similarity 100.0%; Pred. No. 0.39;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 IAKNKMLHS 9

Db 69 IAKNKMLHS 77

RESULT 2

US-08-672-109B-8  
; Sequence 8, Application US/08672109B  
; Patent No. 5710265  
; GENERAL INFORMATION:  
; APPLICANT: Yamada, Tadataka  
; APPLICANT: Gantz, Ira  
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.  
; STREET: P.O. Box 828  
; CITY: Bloomfield Hills  
; STATE: MI  
; COUNTRY: US  
; ZIP: 48303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/672,109B  
; FILING DATE: June 27, 1996  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, Deann F.  
; REGISTRATION NUMBER: 36683  
; REFERENCE/DOCKET NUMBER: 2115-000853DVC  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (810)641-1600  
; TELEFAX: (810)641-0270  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-672-109B-8

Query Match 100.0%; Score 46; DB 1; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNNKLS 9  
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| | | | | | | | | |  
DB 69 IAKNNKLS 77

RESULT 3  
US-08-842-045-8  
; Sequence 8, Application US/08842045  
; Patent No. 5817787  
; GENERAL INFORMATION:  
; APPLICANT: Yamada, Tadataka  
; APPLICANT: Gantz, Ira  
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.  
; STREET: P.O. Box 828  
; CITY: Bloomfield Hills  
; STATE: MI  
; COUNTRY: US  
; ZIP: 48303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/842,045  
; FILING DATE:  
; CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, Deann F.  
; REGISTRATION NUMBER: 36683  
; REFERENCE/DOCKET NUMBER: 2115-000853DVE  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (810)641-1600  
; TELEFAX: (810)641-0270  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-842-045-8

Query Match 100.0%; Score 46; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNNKLS 9  
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| | | | | | | | | |  
DB 69 IAKNNKLS 77

RESULT 4  
US-08-842-238-8  
; Sequence 8, Application US/08842238  
; Patent No. 5869257  
; GENERAL INFORMATION:  
; APPLICANT: Yamada, Tadataka  
; APPLICANT: Gantz, Ira  
; TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Harness, Dickey & Pierce, P.L.C.  
; STREET: P.O. Box 828  
; CITY: Bloomfield Hills  
; STATE: MI  
; COUNTRY: US  
; ZIP: 48303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/842,238  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith, Deann F.  
; REGISTRATION NUMBER: 36683  
; REFERENCE/DOCKET NUMBER: 2115-000853DVD  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (810)641-1600  
; TELEFAX: (810)641-0270  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-842-238-8

Query Match 100.0%; Score 46; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNNKLS 9  
| | | | | | | | | |  
| | | | | | | | | |  
DB 69 IAKNNKLS 77

RESULT 5  
US-08-662-560-2  
; Sequence 2, Application US/08662560  
; Patent No. 5908609  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Huzar, Dennis  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10036/2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/662,560  
; FILING DATE: 10-JUN-1996  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Coruzzi, Laura A  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7853-060  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-790-9090  
; TELEFAX: 212-869-8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 332 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
; US-08-662-560-2

Query Match 100.0%; Score 46; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLS 9  
Db 69 IAKKNKLS 77

RESULT 6  
US-08-780-749A-2  
; Sequence 2, Application US/08780749A  
; Patent No. 5932779  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Huzar, Dennis  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York

COUNTRY: USA  
ZIP: 10036/2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/780,749A  
FILING DATE: 08-JAN-1997  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Laura A. Coruzzi  
REGISTRATION NUMBER: 30,742  
REFERENCE/DOCKET NUMBER: 7853-064  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-8864/9741  
TELEX: 66141 PENNIE  
MOLECULE TYPE: peptide  
US-08-780-749A-2

Query Match 100.0%; Score 46; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLS 9  
Db 69 IAKKNKLS 77

RESULT 7  
US-08-780-749A-6  
; Sequence 6, Application US/08780749A  
; Patent No. 5932779  
; GENERAL INFORMATION:  
; APPLICANT: Lee, Frank  
; APPLICANT: Huzar, Dennis  
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS  
; TITLE OF INVENTION: USEFUL IN THE REGULATION OF BODY WEIGHT  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036/2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/780,749A  
; FILING DATE: 08-JAN-1997  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Laura A. Coruzzi  
; REGISTRATION NUMBER: 30,742  
; REFERENCE/DOCKET NUMBER: 7853-064  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
US-08-780-749A-6

Query Match 100.0%; Score 46; DB 2; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9  
Db 69 IAKNKILHS 77

RESULT 8  
US-08-706-281A-16  
Sequence 16, Application US/08706281A  
Patent No. 6100048  
GENERAL INFORMATION:  
APPLICANT: Cone, Roger D  
APPLICANT: Boston, Bruce A  
APPLICANT: Fan, Wei  
APPLICANT: Keesterton, Robert A  
APPLICANT: Lu, Dongxi  
APPLICANT: Chen, Wendiao  
TITLE OF INVENTION: Methods and Reagents for Discovering and  
TITLE OF INVENTION: Using Mammalian Melanocortin Receptor Agonists and Antagonists  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive  
CITY: Chicago  
STATE: IL  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/706,281A  
FILING DATE: 04-SEP-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 6100048nan, Kevin E  
REGISTRATION NUMBER: 35,303  
REFERENCE/DOCKET NUMBER: 96,886  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-913-0001  
TELEFAX: 312-913-0002  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-706-281A-16

Query Match 100.0%; Score 46; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9  
Db 69 IAKNKILHS 77

RESULT 9  
US-08-629-335B-8  
Sequence 8, Application US/08629335B  
Patent No. 611975  
GENERAL INFORMATION:  
APPLICANT: Yamada, Tadataka  
APPLICANT: Gantz, Ira  
TITLE OF INVENTION: Genes Encoding Melanocortin Receptors  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.  
STREET: P.O. Box 828  
CITY: Bloomfield Hills  
STATE: MI  
COUNTRY: US  
ZIP: 48303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/629,335B  
FILING DATE: July 23, 1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, Dean F.  
REGISTRATION NUMBER: 36683  
REFERENCE/DOCKET NUMBER: 2115-000853DVA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (810)641-1600  
TELEFAX: (810)641-0270  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-629-335B-8

Query Match 100.0%; Score 46; DB 3; Length 332;  
Best Local Similarity 100.0%; Pred. No. 0.39;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKILHS 9  
Db 69 IAKNKILHS 77

RESULT 10  
US-09-097-231-16  
Sequence 16, Application US/09097231  
Patent No. 6278038  
GENERAL INFORMATION:  
APPLICANT: Cone, Roger D  
APPLICANT: Chen, Wendiao  
APPLICANT: Low, Malcolm J  
TITLE OF INVENTION: Mammalian Melanocortin Receptor and Uses  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
STREET: 300 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/097,231

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; FILING DATE: 12-Jun-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
;   NAME: No. 627803shan, Kevin E
;   REGISTRATION NUMBER: 35,303
;   REFERENCE/DOCKET NUMBER: 96,886-C
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 312-913-0001
;   TELEFAX: 312-913-0002
;   TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 16:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 332 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-097-231-16

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 11
US-08-870-511-2
; Sequence 2, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzsar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-2

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 12
US-08-870-511-6
; Sequence 6, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzsar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
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; SEQ ID NO 6
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-6

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 13
US-08-870-511-8
; Sequence 8, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzsar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 8
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-8

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77

RESULT 14
US-08-870-511-10
; Sequence 10, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
;   APPLICANT: Lee, Frank
;   APPLICANT: Huzsar, Dennis
;   APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; TITLE OF INVENTION: REGULATION OF BODY WEIGHT
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 10
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-10

Query Match          100.0%; Score 46; DB 3; Length 332;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IAKKNKILHS 9
Db 69 IAKKNKILHS 77
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RESULT 15
US-08-870-511-12
; Sequence 12, Application US/08870511
; Patent No. 6287763
; GENERAL INFORMATION:
; APPLICANT: Lee, Frank
; APPLICANT: Huszar, Dennis
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: SCREENING METHODS FOR COMPOUNDS USEFUL IN THE
; FILE REFERENCE: 7853-083
; CURRENT APPLICATION NUMBER: US/08/870,511
; CURRENT FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-870-511-12

Query Match          100.0%; Score 46; DB 3; Length 332;
Best local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 IAKNKLIHS 9
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Db      69 IAKNKLIHS 77
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using SW model

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Perfect score: 46

Sequence: 1 IAKNKNLHS 9

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Gapop 10.0 , Gapext 0.5

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Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:\*

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4: /cgn2\_6/prodata/2/pubppa/US06\_PUBCOMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	311	17	US-10-834-485-3
2	46	100.0	311	17	US-10-816-304-3
3	46	100.0	332	10	US-09-876-252-74
4	46	100.0	332	10	US-09-876-252-136
5	46	100.0	332	10	US-09-884-211A-3
6	46	100.0	332	10	US-09-884-211A-4
7	46	100.0	332	10	US-09-910-180-2
8	46	100.0	332	14	US-10-226-594-4
9	46	100.0	332	14	US-10-207-330-6
10	46	100.0	332	14	US-10-207-330-9
11	46	100.0	332	14	US-10-288-160-16
12	46	100.0	332	14	US-10-074-754-2
13	46	100.0	332	14	US-10-225-567A-158

#### ALIGNMENTS

14	46	100.0	332	14	US-10-373-355-2	Sequence 2, Appl
15	46	100.0	332	14	US-10-318-661-27	Sequence 27, Appl
16	46	100.0	332	14	US-10-413-752-2	Sequence 2, Appl
17	46	100.0	332	14	US-10-413-752-6	Sequence 6, Appl
18	46	100.0	332	14	US-10-417-820A-74	Sequence 74, Appl
19	46	100.0	332	14	US-10-417-820A-136	Sequence 136, Appl
20	46	100.0	332	16	US-10-723-955-74	Sequence 136, Appl
21	46	100.0	332	16	US-10-723-955-74	Sequence 136, Appl
22	46	100.0	332	15	US-10-296-734-1116	Sequence 1116, Ap
23	46	100.0	332	15	US-10-296-734-1118	Sequence 1118, Ap
24	46	100.0	332	13	US-10-052-545-2	Sequence 2, Appl
25	46	100.0	332	14	US-10-226-594-1	Sequence 1, Appl
26	46	100.0	332	14	US-10-288-160-6	Sequence 6, Appl
27	46	100.0	332	14	US-10-413-752-4	Sequence 162, App
28	46	100.0	332	14	US-10-353-690-60	Sequence 4, Appl
29	46	100.0	332	14	US-10-164-717-6	Sequence 60, Appl
30	46	100.0	332	14	US-10-164-717-3	Sequence 6, Appl
31	46	100.0	332	15	US-10-296-734-822	Sequence 822, Appl
32	46	100.0	332	16	US-10-322-281-166	Sequence 166, App
33	46	100.0	332	14	US-10-164-717-7	Sequence 7, Appl
34	46	100.0	332	14	US-10-164-717-2	Sequence 2, Appl
35	46	100.0	332	14	US-10-164-717-3	Sequence 3, Appl
36	46	100.0	332	14	US-10-164-717-4	Sequence 4, Appl
37	46	100.0	332	14	US-10-164-717-5	Sequence 5, Appl
38	46	100.0	332	15	US-10-296-734-1210	Sequence 1210, Ap
39	46	100.0	332	9	US-09-910-180-7	Sequence 7, Appl
40	46	100.0	332	13	US-10-052-545-16	Sequence 16, Appl
41	46	100.0	332	14	US-10-288-160-18	Sequence 18, Appl
42	46	100.0	332	14	US-10-256-089-2	Sequence 2, Appl
43	46	100.0	332	14	US-10-225-567A-160	Sequence 160, Appl
44	46	100.0	332	14	US-10-369-022-40	Sequence 40, Appl
45	46	100.0	332	14	US-10-288-160-4	Sequence 4, Appl

RESULT 1  
US-10-834-485-3  
Sequence 3, Application US/10834485  
Publication No. US20040235030A1  
GENERAL INFORMATION:  
APPLICANT: Rothschild, Max F.  
APPLICANT: Larsen, Nellis  
TITLE OF INVENTION: Melanocortin-4 Receptor Gene and Use as a Genetic Marker for Fat  
FILE REFERENCE: ISURF 2413  
CURRENT APPLICATION NUMBER: US/10/834,485  
CURRENT FILING DATE: 2004-04-29  
PRIOR APPLICATION NUMBER: US/09/380,419C  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 3  
LENGTH: 311  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (298)..(298)  
OTHER INFORMATION: "X" can be any amino acid  
US-10-834-485-3

Query Match 100.0%; Score 46; DB 17; Length 311;  
Best Local Similarity 100.0%; Pred. No. 1.7;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKNKNLHS 9  
Db 27 IAKNKNLHS 35

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RESULT 2
US-10-816-304-3
; Sequence 3, Application US/10816304
; Publication No. US20040261138A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max
; APPLICANT: Emmett, Rebecca
; APPLICANT: Kim, Kwan
; TITLE OF INVENTION: Genetic Markers for Improved Meat Characteristics in
; FILE REFERENCE: ISURF 2697
; CURRENT APPLICATION NUMBER: US/10/816,304
; PRIOR FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US/09/538,165
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 3
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (298)..(298)
; OTHER INFORMATION: "Xaa" can be any amino acid
US-10-816-304-3
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Query Match      100.0%; Score 46; DB 17; Length 311;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 IAKKNKLHS 9
DB      27 IAKKNKLHS 35
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RESULT 3
US-09-876-252-74
; Sequence 74, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Rec
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,951
; PRIOR FILING DATE: 1999-03-12
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; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/152,524
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/151,114
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: 60/108,029
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,127
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/141,448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 74
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-252-74
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Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 IAKKNKLHS 9
DB      69 IAKKNKLHS 77
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```
RESULT 4
US-09-876-252-136
; Sequence 136, Application US/09876252
; Publication No. US20030018182A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Re
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
```



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; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,436
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,948
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,951
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,946
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,949
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/152,524
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/151,114
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: 60/108,029
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/136,436
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,439
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/136,567
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,127
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/137,131
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/141,448
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/136,437
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/156,555
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,634
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/156,653
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/157,280
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,294
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,281
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/157,282
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/156,633
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 136
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-252-136
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Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      1 IAKKNKILHS 9
|||||
Db      69 IAKKNKILHS 77
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RESULT 5
US-09-884-211A-3
; Sequence 3, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et. al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PCI0743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Feline MCR protein Sequence
US-09-884-211A-3
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Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      1 IAKKNKILHS 9
|||||
Db      69 IAKKNKILHS 77
```

```
RESULT 6
US-09-884-211A-4
; Sequence 4, Application US/09884211A
; Publication No. US20030032791A1
; GENERAL INFORMATION:
; APPLICANT: Alan et. al.
; TITLE OF INVENTION: NOVEL MELANOCORTIN-4 RECEPTOR SEQUENCES AND
; TITLE OF INVENTION: SCREENING ASSAYS TO IDENTIFY COMPOUNDS USEFUL
; TITLE OF INVENTION: IN REGULATING ANIMAL APPETITE AND METABOLIC RATE
; FILE REFERENCE: PCI0743A
; CURRENT APPLICATION NUMBER: US/09/884,211A
; CURRENT FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: 60/213,909
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Canine MCR protein Sequence
US-09-884-211A-4
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```
Query Match      100.0%; Score 46; DB 10; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Oy      1 IAKKNKILHS 9
|||||
Db      69 IAKKNKILHS 77
```

```
RESULT 7
US-09-910-180-2
; Sequence 2, Application US/09910180
; Publication No. US20030082678A1
; GENERAL INFORMATION:
; APPLICANT: Heitung, Hansen
```

APPLICANT: Smith, Dennis  
APPLICANT: Zhang, Xing-Yue  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING BODY WEIGHT IN BOVINE SPECIES  
FILE REFERENCE: P-12621  
CURRENT APPLICATION NUMBER: US/09/910,180  
CURRENT FILING DATE: 2002-04-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 2  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Bovine  
US-09-910-180-2

Query Match 100.0%; Score 46; DB 10; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.8;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLHS 9  
DB 69 IAKKNKLHS 77

RESULT 8  
US-10-226-594-4  
Sequence 4, Application US/10226594  
Publication No. US20030017966A1  
GENERAL INFORMATION:  
APPLICANT: Duman, Ronald  
TITLE OF INVENTION: MC-4R AS A TARGET FOR THE IDENTIFICATION OF COMPOUNDS  
FILE REFERENCE: 07334-101001  
CURRENT APPLICATION NUMBER: US/10/226,594  
CURRENT FILING DATE: 2002-08-23  
PRIOR APPLICATION NUMBER: US/09/385,763  
PRIOR FILING DATE: 1999-08-30  
PRIOR APPLICATION NUMBER: US 60/099,104  
PRIOR FILING DATE: 1998-09-03  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-226-594-4

Query Match 100.0%; Score 46; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.8;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLHS 9  
DB 69 IAKKNKLHS 77

RESULT 9  
US-10-207-330-6  
Sequence 6, Application US/10207330  
Publication No. US20030018169A1  
GENERAL INFORMATION:  
APPLICANT: Kochendoerfer, Gerd G  
APPLICANT: Hunter, Christie L  
APPLICANT: Kent, Stephen B.H.  
APPLICANT: Botli, Paolo  
APPLICANT: Gryphon Sciences  
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis  
FILE REFERENCE: grfn-028/02WO  
CURRENT APPLICATION NUMBER: US/10/207,330  
CURRENT FILING DATE: 2002-07-30  
PRIOR APPLICATION NUMBER: US/09/384,302  
PRIOR FILING DATE: 1999-08-26  
PRIOR APPLICATION NUMBER: 09/144,964

PRIOR FILING DATE: 1998-08-31  
PRIOR APPLICATION NUMBER: 09/263,971  
PRIOR FILING DATE: 1999-03-05  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-207-330-6

Query Match 100.0%; Score 46; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.8;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLHS 9  
DB 69 IAKKNKLHS 77

RESULT 10  
US-10-207-330-9  
Sequence 9, Application US/10207330  
Publication No. US20030018169A1  
GENERAL INFORMATION:  
APPLICANT: Kochendoerfer, Gerd G  
APPLICANT: Hunter, Christie L  
APPLICANT: Kent, Stephen B.H.  
APPLICANT: Botli, Paolo  
APPLICANT: Gryphon Sciences  
TITLE OF INVENTION: Lipid Matrix-Assisted Chemical Ligation and Synthesis  
FILE REFERENCE: grfn-028/02WO  
CURRENT APPLICATION NUMBER: US/10/207,330  
CURRENT FILING DATE: 2002-07-30  
PRIOR APPLICATION NUMBER: US/09/384,302  
PRIOR FILING DATE: 1999-08-26  
PRIOR APPLICATION NUMBER: 09/144,964  
PRIOR FILING DATE: 1998-08-31  
PRIOR APPLICATION NUMBER: 09/263,971  
PRIOR FILING DATE: 1999-03-05  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-207-330-9

Query Match 100.0%; Score 46; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.8;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKLHS 9  
DB 69 IAKKNKLHS 77

RESULT 11  
US-10-288-160-16  
Sequence 16, Application US/10288160  
Publication No. US20030105024A1  
GENERAL INFORMATION:  
APPLICANT: Core, Roger D  
APPLICANT: Fan, Wei  
APPLICANT: Boston, Bruce A  
APPLICANT: Keesterton, Robert A  
APPLICANT: Lu, Dongxai  
APPLICANT: Chen, Wenbiao

```

; TITLE OF INVENTION: Methods and Reagents for Discovering and
; Using Mammalian Melanocortin Receptor Agonists and Antagonists
; to Modulate Feeding Behavior in Animals
;
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
; STREET: 300 South Wacker Drive
; CITY: Chicago
; STATE: IL
; COUNTRY: USA
; ZIP: 60606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/288,160
; FILING DATE: 05-No. US20030105024A1-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,281
; FILING DATE: 04-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: No. US20030105024A1nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 96,886
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-913-0002
; TELEFAX: 312-913-0002
; TELEX: <Unknown>
;
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
;
; US-10-288-160-16
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 IAKKNKILHS 9
      |||||
Db      69 IAKKNKILHS 77

RESULT 12
; US-10-074-754-2
; Sequence 2, Application US/10074754
; Publication No. US20030113263A1
; GENERAL INFORMATION:
; APPLICANT: Marks, Daniel L.
; TITLE OF INVENTION: Methods and Reagents for Discovering and Using
; TITLE OF INVENTION: Mammalian Melanocortin Receptor Antagonists to Treat
; FILE REFERENCE: 96-886
; CURRENT APPLICATION NUMBER: US/10/074,754
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin Ver. 2.0
;
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-074-754-2
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 IAKKNKILHS 9
      |||||
Db      69 IAKKNKILHS 77

RESULT 13
; US-10-225-567A-158
; Sequence 158, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenn C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENE PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: Patentin version 3.1
;
; SEQ ID NO 158
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-225-567A-158
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 IAKKNKILHS 9
      |||||
Db      69 IAKKNKILHS 77

RESULT 14
; US-10-373-355-2
; Sequence 2, Application US/10373355
; Publication No. US20030165009A1
; GENERAL INFORMATION:
; APPLICANT: MacNeil, Douglas J.
; APPLICANT: Weinberg, David H.
; TITLE OF INVENTION: DNA MOLECULES ENCODING THE MELANOCORTIN
; TITLE OF INVENTION: 4 RECEPTOR PROTEIN FROM RHESUS MONKEY
; FILE REFERENCE: 20190P
; CURRENT APPLICATION NUMBER: US/10/373,355
; CURRENT FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: US/09/831,206
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: PCT/US99/25767
; PRIOR FILING DATE: 1999-11-05
; PRIOR APPLICATION NUMBER: 60/107,721
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 2
; LENGTH: 332
; TYPE: PRT
; ORGANISM: rhesus monkey (Macaca mulatta)
; US-10-373-355-2
;
Query Match          100.0%; Score 46; DB 14; Length 332;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 15  
US-10-318-661-27  
; Sequence 27, Application US/10318661  
; Publication No. US20030167476A1  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Bruce R.  
; TITLE OF INVENTION: Selective Target Cell Activation By  
; TITLE OF INVENTION: Expression of A G Protein-Coupled Receptor Activated  
; TITLE OF INVENTION: Superiorly By Synthetic Ligand  
; FILE REFERENCE: UCAL-049CIP2  
; CURRENT APPLICATION NUMBER: US/10/318, 661  
; CURRENT FILING DATE: 2003-05-05  
; PRIOR APPLICATION NUMBER: US 09/341,446  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US97/05334  
; PRIOR FILING DATE: 1997-03-25  
; PRIOR APPLICATION NUMBER: US 08/622,348  
; PRIOR FILING DATE: 1996-03-26  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 27  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-318-661-27

Query Match 100.0%; Score 46; DB 14; Length 332;  
Best Local Similarity 100.0%; Pred. No. 1.8;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAKKNKILHS 9  
|||  
Db 69 IAKKNKILHS 77

Search completed: January 3, 2005, 18:26:55  
Job time : 42.8909 secs